



DIGITAL FABRICATION WORKSHOP

Designing an accessory for a single hand amputee enabling them to play the guitar

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Abstract

The goal of our project was to create a guitar accessory that includes single-hand amputees in the user-base of electric guitar players and shoppers. The accessory is meant to help the user learn to play the guitar using any guitar available to them, using a single arm.

Problem statement

The problem statement we worked on was “Design an accessory for an electric guitar that enables Ram, a single-hand amputee who loves The Beatles to play his favorite song ‘Hey Jude’”

Features

A mechanical arm that is controlled by the user using a footpedal. This arm allows them to strum the guitar while they play the chords with their hand.

The arm can also be ‘engaged’ and ‘disengaged’ using the pedal so that the user has the flexibility of strumming up, down and both alternately.



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